

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method of servowriting in a disc drive having a head with an offset radially between a read element and a write element, the method comprising steps of:

- (a) during an instance of a first sector position passing by the head, reading a servo wedge on a first track with the read element; and
- (b) during the instance of the first sector position passing by the head, and not during the reading a servo wedge step (a), writing two or more servo bursts on a second track with the write element; and
recording a head position determined from the reading a servo wedge step relative to an ideal track center.

2. (Currently amended) The method of claim 1 further comprising a step of:

- (c) during one revolution of a disc of the disc drive, repeating the reading a servo wedge step (a) and the writing servo bursts step (b) for all sector positions of the track.

3. (Currently amended) The method of claim 1 further comprising a step of:

- (d) prior to the reading a servo wedge step a) and the writing servo bursts step b), writing, with a Servo Track Writer, servo wedges for a number of adjacent tracks greater than the offset between the read element and write element.

Claims 4-5 (Canceled)

6. (Previously presented) The method of claim 1, wherein the reading the servo wedge is performed before writing the two or more servo bursts.

7. (Previously presented) The method of claim 1, wherein the reading the servo wedge is performed after writing one servo burst and before writing another servo burst.

8. (Previously presented) The method of claim 1, wherein the reading the servo wedge is performed after writing the two or more servo bursts.

9. (Currently amended) ~~The method of claim 1, wherein the reading step (a) comprises steps of~~ A method of servowriting in a disc drive having a head with an offset radially between a read element and a write element, the method comprising steps of:
(a) during an instance of a first sector position passing by the head, reading a servo wedge on a first track with the read element by steps comprising:
(a)(1) reading the servo wedge before writing the two or more servo bursts; or
(a)(2) (b) reading the servo wedge after writing one of the servo bursts burst and before writing another servo burst; or
(a)(3) (c) reading the servo wedge after writing the two or more servo bursts; and
wherein the method further comprises steps of:

~~(b)~~ during the instance of the first sector position passing by the head, and not during the reading a servo wedge step, writing the two or more servo bursts on a second track with the write element;

~~(g)~~ finding a head offset;

~~(h)~~ performing the reading a servo wedge step ~~(a)~~ and the writing servo bursts step

~~(b)~~ for all the sector positions on a track according to either the reading step

~~(a)(1)~~, the reading step ~~(a)(2)~~ (b), or the reading step ~~(a)(3)~~ (c);

~~(i)~~ seeking the head one track;

~~(j)~~ repeating the performing step ~~(h)~~ and the seeking step ~~(i)~~ a set of repetitions equal to the head offset; and

~~(k)~~ repeating the finding step, performing step, seeking step and ~~(g)~~ through the

repeating step ~~(j)~~ for all tracks using the reading step ~~(a)(1)~~, the reading step

~~(a)(2)~~ (b), or the reading step ~~(a)(3)~~ (c) but not the reading step ~~(a)(1)~~, the reading

step ~~(a)(2)~~ (b), or the reading step ~~(a)(3)~~ (c) used in an immediately preceding two

sets of repetitions repeating the performing step and the seeking step.

10. (Currently amended) A disc drive that writes servo wedges, comprising:

one or more discs having a plurality of tracks divided into a plurality of sector positions;

an actuator positioning a head having a read element and a write element separated by an offset radially;

a read/write channel in electrical communication with the read element and the write element, wherein during an instance of a first sector position passing by the head,

the read/write channel reads a servo wedge on a first track with the read element, and during the instance of the first sector position passing by the head and not during reading of the first servo wedge, the read/write channel writes two or more servo bursts on a second track with the write element; and

a processor in communication with the read/write channel, the processor being configured for finding a head offset and switching to a different order the reading and writing for each sector position after reading the servo wedge and the writing servo bursts according to a first order for a number of tracks equal to the head offset.

11. (Previously presented) The disc drive of claim 10, wherein during one revolution of the one or more discs of the disc drive, the read/write channel repeats reading the servo wedge and writing the servo bursts for all sector positions of the track.

12. (Currently amended) ~~The disc drive of claim 10,~~ A disc drive that writes servo wedges, comprising:

one or more discs having a plurality of tracks divided into a plurality of sector positions;

a head having a read element and a write element separated by an offset radially;

a read/write channel in electrical communication with the read element and the write element, wherein during an instance of a first sector position passing by the head, the read/write channel reads a servo wedge on a first track with the read element, and during the instance of the first sector position passing by the head and not

during reading of the first servo wedge, the read/write channel writes two or more servo bursts on a second track with the write element; and
wherein at least three servo wedges are located in each sector position for a number of adjacent tracks greater than the offset between the read element and write element.

13. (Canceled)

14. (Currently amended) ~~The disc drive of claim 10;~~ A disc drive that writes servo wedges, comprising:

one or more discs having a plurality of tracks divided into a plurality of sector positions;
a head having a read element and a write element separated by an offset radially;
a read/write channel in electrical communication with the read element and the write element, wherein during an instance of a first sector position passing by the head,
the read/write channel reads a servo wedge on a first track with the read element,
and during the instance of the first sector position passing by the head and not
during reading of the first servo wedge, the read/write channel writes two or more servo bursts on a second track with the write element; and
memory in electrical communication with the read/write channel, wherein the memory records a head position relative to an ideal track center determined from the read/write channel reading the servo wedge.

15. (Previously presented) The disc drive of claim 10, wherein the read/write channel reads the servo wedge before writing the servo bursts.

16. (Previously presented) The disc drive of claim 10, wherein the read/write channel reads the servo wedge after writing one of the servo bursts and before writing another one of the servo bursts.

17. (Previously presented) The disc drive of claim 10, wherein the read/write channel reads the servo wedge after writing the servo bursts.

18. (Canceled)

19. (Original) A disc drive, comprising:
a head having a read element radially offset from a write element; and
means for writing servo wedges with the head for each sector position of a plurality of tracks of the disc drive.

20. (Previously presented) The disc drive of claim 19, wherein the means for writing is configured to read a servo wedge from a first track and write two or more servo bursts to a second track during an instance of a first sector position passing by the head.

21. (Previously presented) The disc drive of claim 20, wherein the tracks are located on one or more discs and wherein during one revolution of the one or more discs of the disc

drive, the means for writing repeats reading the servo wedge and writing the servo bursts for all sector positions of the track.

22. (Original) The disc drive of claim 20, wherein at least three servo wedges are located in each sector position for a number of adjacent tracks greater than the offset between the read element and write element.

23. (Canceled)

24. (Previously presented) The disc drive of claim 20, further comprising a memory in electrical communication with the means for writing, wherein the memory records a head position relative to an ideal track center determined from the means for writing the servo wedges.

25. (Previously presented) The disc drive of claim 20, wherein the disc drive further comprises:

an actuator for positioning the head; and

wherein the means for writing comprises a processor in communication with a read/write channel, the processor being configured to find a head offset from the read/write channel reading the servo wedge, the processor being further configured to cause the actuator to seek the head one track after the servo bursts have been written for all sector positions of a track, and further configured to cause the read/write channel to switch to a different order of reading and writing

for each sector position after reading the servo wedge and writing servo bursts according to a first order for a number of tracks equal to the head offset.

Claims 26-27 (Canceled)